FINAL

PROJECT CLOSEOUT SUMMARY REPORT FOR ALABAMA ARMY AMMUNITION PLANT (AIAAP) CHILDERSBURG, ALABAMA

July 2000

Submitted to:
U.S. Army Corps of Engineers
Fort McClellan Resident Office
PO Box 5039
Fort McClellan, Alabama 36205-0039

Submitted by:

Roy F. Weston, Incorporated West Chester, Pennsylvania 19380



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- Attachment 2 Final Report for the Remediation of Contaminated Soil from Area A, Study Areas 12 and D (WESTON, February 1995)
- Attachment 3 Excavation Plan for Study Area 21 (Red Water Ditch) (WESTON, December 1994)
- Attachment 4 Monthly Status Report Study Areas 7 and 21 and Excavation Plan for Study Area 7 (WESTON, January 1995)
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- Attachment 8 Closure Report, Excavate Lead Contaminated Soil, Area 16 and 19 (Environmental Chemical Corporation, June 12, 1998)
- Attachment 9 Final Report, Stabilization of Incinerator Treated Soil and Fly Ash and Excavated Soil from Study Areas 14, 16, and 19 (Environmental Chemical Corporation, January, 1999)
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- Attachment 11 Area B Closeout Report, Alabama Army Ammunition Plant, (AlAAP), Childersburg, Alabama (WESTON, June 2000)

LIST OF ACRONYMS

ACM Asbestos-Containing Material

ADEM Alabama Department of Environmental Management

AlaAP Alabama Army Ammunition Plant
AWTS Aqueous Waste Treatment System
BAAMP Baseline Ambient Air Monitoring Plan
BACP Backfill Area Characterization Plan
CDAP Chemical Data Acquisition Plan
CFR Code of Federal Regulations

cm² square centimeter
CO Contracting Officer

CQC Contractor Quality Control

CQCP Construction Quality Control Plan

DMP Data Management Plan

DNT Dinitrotoluene

DOE Department of Energy
DOT Department of Transport

EPA Environmental Protection Agency

°F Fahrenheit
FS Feasibility Study

ft feet

gpm gallons per minute
ISS Industrial Sewer System
IAG Interagency Agreement

IDIdentificationmg/Lmilligrams per literMCCMotor Control CenterMHPMaterials Handling PlanMRDMissouri River District

PPE Personal Protective Equipment

ppm parts per million
PTP Performance Tes

PTP Performance Test Plan QA Quality Assurance

QA/QC Quality Assurance/Quality Control QAPP Quality Assurance Project Plan

QC Quality Control

RCRA Resource Conservation and Recovery Act

RG Remediation Goals
RI Remedial Investigation
ROD Record of Decision

SAP Sampling and Analysis Plan
SCC Secondary Combustion Chamber
SOP Standard Operating Procedure

LIST OF ACRONYMS (Cont.)

SSHP Site Safety and Health Plan

SW Solid Waste

TCLP Toxicity Characteristic Leaching Procedure
TIS-20 TIS-20 Transportable Incineration System

TDS Total Dissolved Solids
TSS Total Suspended Solids
TOC Total Organic Carbon
TNT 2,4,6-trinitrotoluene

USACE US Army Corps of Engineers
USAEC US Army Environmental Center

VCP Vitreous Clay Pipe WAP Waste Analysis Plan WESTON® Roy F. Weston, Inc.

WP Work Plan yd³ cubic yard

μg/cm² micrograms per square centimeter

1. INTRODUCTION

The U.S. Army Corps of Engineers (USACE) contracted Roy F. Weston, Inc. (WESTON®) to perform a remedial action of soils, sediments, debris, and pipelines, primarily contaminated with explosives and lead, at the Alabama Army Ammunition Plant (AlAAP) at Childersburg, Alabama. AlAAP is a National Priority List (NPL) site. A transportable incineration system (the TIS-20) developed by WESTON® was used as the primary treatment technology for the remediation of explosives-contaminated soil. A complete description of the TIS-20 is included in the Work Plan.¹

During the course of the project, WESTON® has conducted remediation activities associated with explosives- and lead-contaminated materials in Areas A and B. The purpose of this report is to provide an overall summary of the work conducted in Areas A and B. The work was conducted in accordance with the following Record of Decision (ROD) documents:

- Record of Decision, Stockpile Soils Area Operable Unit (December 1991).
- Interim Record of Decision, Study Areas 12 and D of the Area A Soil Operable Unit (April 1994).
- Final Interim Record of Decision, Area B Soils Operable Unit (Study Areas 6, 7, 10, and 21) (October 1994).
- Interim Record of Decision, Area B Soils Operable Unit IV (Study Areas 2, 10, 16, 17, 19, and 22) (October 1996).

1.1 SITE LOCATION

AlAAP is located in Talladega County in east-central Alabama, 40 miles southeast of Birmingham and 70 miles north of Montgomery (Figure 1-1). The nearest town is Childersburg, which is 4 miles south of AlAAP.

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Work Plan for a Transportable Incineration System (TIS) at the Alabama Army Ammunition Plant (AlAAP) Stockpile Soils Area Operable Unit", February 1994, prepared by Roy F. Weston, Inc.



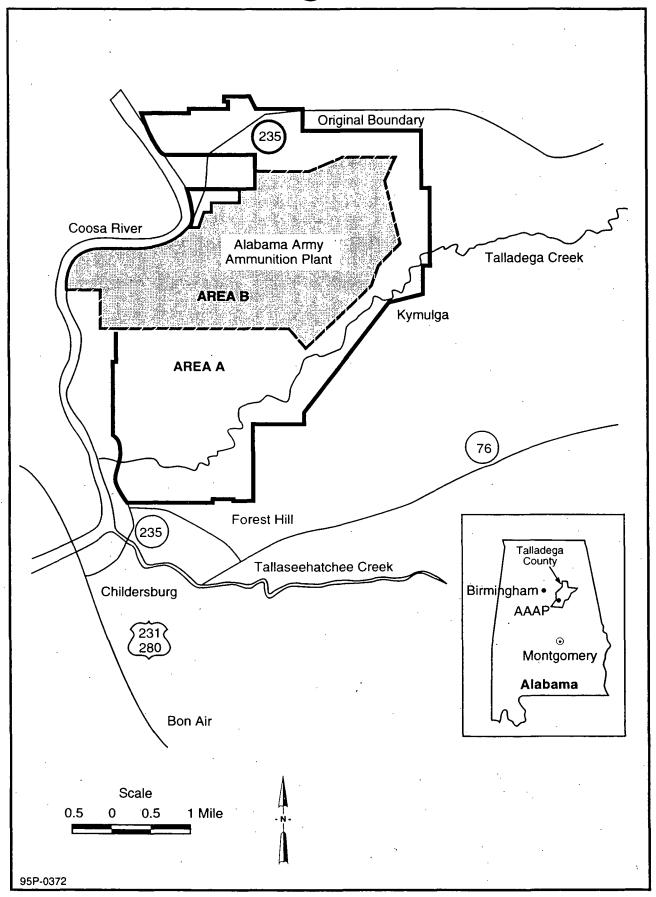


FIGURE 1-1 LOCATION MAP OF ALAAP

1.2 BACKGROUND INFORMATION

AlAAP was established on 13,233 acres of land near the junction of Talladega Creek and the Coosa River. The plant was built in 1941 and operated during World War II (WWII) as a government-owned/contractor-operated (GOCO) facility. AlAAP produced nitrocellulose (NC), single-based smokeless powder, and nitroaromatic explosives (i.e., trinitrotoluene (TNT); dinitrotoluene (DNT); and 2,4,6-trinitrophenylmethylnitramine (tetryl)). Activities at AlAAP included the manufacture of explosives; DNT; and chemicals including sulfuric acid, nitric acid, aniline, N,N-dimethylaniline, and diphenylamine. Spent acids were recycled and wastes resulting from these operations were disposed. In August 1945, operations were terminated at AlAAP, and the plant was converted to standby status.

The plant was maintained in various stages of standby status until the early 1970s. In 1973, the Army declared AlAAP excess to its needs. Since that time, several parcels of the original property were sold or returned to their previous owners. In 1977, a 1,354-acre parcel was sold to Kimberly Clark, Inc. for construction of a paper products plant. Area A, encompassing 2,714 acres, was auctioned in May 1990. Future land uses for these properties are expected to consist of hunting grounds and wooded areas for occasional logging.

In 1978, the U.S. Army Environmental Center (USAEC) (formerly U.S. Army Toxic and Hazardous Materials Agency (USATHAMA)), managing the Army's Installation Restoration Program (IRP), conducted a record search which concluded that specific areas of the facility were potentially contaminated by explosives and lead compounds. Additional studies at AlAAP confirmed that soils were contaminated with explosives compounds, asbestos, and lead. Several investigations were conducted between 1981 and 1983 to define contamination further. In 1984, AlAAP was proposed for inclusion on the CERCLA (Superfund) National Priorities List (NPL).

A Remedial Investigation/Feasibility Study (RI/FS) under the Department of Defense (DOD) IRP was initiated in 1985 to determine the nature and extent of contamination at AlAAP and the alternatives available to remediate the site. For the purposes of the RI/FS, the facility was divided into two general areas. Area A consisted of the eastern portion of the facility and Area B consisted of the western portion. The initial RI under the IRP confirmed the existence of explosives,

asbestos, and lead contamination in the soil in Area A and in the soil, sediment and groundwater in Area B. The RI for Areas A and B was completed in 1986. As a result of the findings of the RI, cleanup activities at Area A were conducted in 1986 and 1987, and included building decontamination and demolition, soil excavation, and stockpiling. Initially, 21,400 yd³ of contaminated soils were excavated from Area A and stockpiled in Area B in two covered buildings and on a concrete slab that was subsequently covered with a membrane liner. In July 1987, AlAAP was placed on the NPL. The subsequent sequence of events related to Areas A and B are presented separately in the following paragraphs.

Area A

In 1990, EPA indicated that additional investigations needed to be conducted at Area A to ensure that no residual contamination remained. Area A was conveyed to private buyers in August 1990, with the provision that additional investigations would be performed, and remediation conducted, as necessary.

In 1991, a supplemental RI was conducted to verify the effectiveness of the completed remedial actions in Area A. The supplemental RI determined that soils in Study Areas 12 and D contained lead and explosives at unacceptable concentrations. The supplemental RI/FS, completed in January 1993, concluded that approximately 3,800 yd³ of lead-contaminated soil in Study Area 12 and approximately 5 yd³ of explosives-contaminated soil in Study Area D required further remediation. An Interim Record of Decision (ROD) for Area A Soil Operable Unit (Study Areas 12 and D) was submitted in April 1994. Stabilization and incineration were selected as the preferred remedial alternatives in the Interim ROD for Area A soils. Study Area 12 soils were excavated, stabilized and placed in the on-site backfill area. TNT-contaminated soils from Study Area D were incinerated and the treated soil was also transported to the on-site backfill area.

Area B

In February 1991, a Characterization Study was conducted for the Stockpile Soils excavated from Area A and stored in Area B. The study confirmed that explosives, lead, and asbestos contamination was present above acceptable limits. In March 1991, a tornado demolished one of the two buildings that contained Stockpiled Soils. Soils and debris from the demolished building

were relocated on to the concrete slab and covered with a membrane liner. A Feasibility Study was completed for the Stockpile Soils in October 1991. A ROD for the Stockpile Soils Area Operable Unit was issued in December 1991 and recommended incineration as the preferred alternative. The incineration of Stockpile Soils commenced on 9 April 1994 and ended 22 August 1994.

Numerous investigations were conducted in study areas within Area B to delineate the nature and extent of contamination in different media, including, soils, sediments, surface water, vitreous clay pipes (VCP), etc. Based on these studies, initial remediation activities in Study Areas 6, 7, 10, and 21 were conducted as an incremental step towards the remediation of contaminated media in the study areas within Area B. Consequently, in October 1994, a ROD² was approved by the EPA and the Alabama Department of Environmental Management (ADEM) to remediate soils, sediments, and VCP in Study Areas 6, 7, 10, and 21. This Area B Soils Operable Unit ROD selected incineration as the primary treatment technology, and stabilization as the secondary treatment technology, if required. A separate ROD³ was submitted by WESTON® as an extension to the October 1994 ROD, to include additional work required in Area B. This ROD was approved by the EPA in October 1996.

Remediation activities in Area B were commenced in January 1995. The site was officially closed on 24 April 1998.

1.3 LIST OF PROJECT PLANS DEVELOPED AND APPROVED PRIOR TO THE COMMENCEMENT OF WORK

WESTON® developed and provided plans to USACE and the regulatory agencies for review and approval prior to commencing remediation activities in Areas A and B. The plans discussed and detailed WESTON®'s proposed methods, and the sequence of preparation and remediation activities for Areas A and B. The plans also described methods for contaminant identification and

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² "Final Interim Record of Decision, Alabama Army Ammunition Plant, Childersburg, Alabama, Area B Soils Operable Unit (Study Areas 6, 7, 10 and 21)", October 1994, prepared by Roy F. Weston, Inc.

³ "Interim Record of Decision, Alabama Army Ammunition Plant, Childersburg, Alabama, Area B Soils Operable Unit IV (Study Areas 2, 10, 16, 17, 19 and 22)", October 1996, prepared by Roy F. Weston, Inc.

verification sampling programs to be implemented, and quality assurance/quality control (QA/QC) plans and procedures. The project plans included the following:

- Health and Safety Plan Form for Stockpile Characterization and Backfill Areas (January 1991).
- Construction Quality Control Plan (CQCP) (February 1991).
- Environmental Protection Plan (February 1991).
- Erosion and Sediment Control Plan (February 1991).
- Security Plan (February 1991).
- Traffic Control Plan (February 1991).
- Feasibility Study Report (October 1991).
- Proposed Plan (November 1991).
- Record of Decision (December 1991).
- Data Management Plan (DMP) (April 1992).
- Hazard Analysis (January 1993).
- Stockpile Soils Characterization Plan (May 1993).
- Site Safety and Health Plan (SSHP) (January 1994).
- Baseline Ambient Air Monitoring Plan (BAAMP) (included in SSHP) (January 1994).
- Chemical Data Acquisition Plan (CDAP) (February 1994).
- Materials Handling Plan (MHP) (February 1994).
- Performance Test Plan (PTP) (February 1994).
- QA/QC Plan for Performance Test (February 1994).
- Work Plan (WP) (February 1994).
- Backfill Area Characterization Plan (BACP) (March 1994).
- Backfill Area Permit Application (March 1994).
- Waste Analysis Plan (WAP) (April 1994).

1.4 PURPOSE OF THIS REPORT

The purpose of this report is to present an overall summary of the work conducted in Areas A and B. In addition, titles of important documents associated with the project are provided. At the request of USACE, copies of relevant documents are resubmitted as attachments to this Summary Report. The document title, contents of each document, and the attachment number are presented in Table 1-1. In the table, documents related to Area A are listed first, followed by the documents for Area B. Within each category, the documents are listed in the chronological order.

Table 1-1 Documents Submitted With This Report

	Document Title	Contents/Description	Location
	AREA A		
1	Closeout Report for Stockpile Soils Area Operable Unit (WESTON, February 1995)	Area A Closure Report for Stockpile Soils	Attachment 1
2	Final Report for the Remediation of Contaminated Soil from Area A, Study Areas 12 and D (WESTON, February 1995)	Area A Closure Report for Study Areas 12 and D	Attachment 2
	AREA B		·
3	Excavation Plan for Study Area 21 (Red Water Ditch) (WESTON, December 1994)	Area B Sampling Plan for Study Area 21 Sampling Results for Study Area 21	Attachment 3
4	Monthly Status Report – Study Areas 7 and 21 and Excavation Plan for Study Area 7 (WESTON, January 1995)	Area B Sampling Plan for Study Area 7 Sampling Results for Study Areas 7 and 21	Attachment 4
5	Monthly Status Report – Study Areas 6, 7, and 21 and Excavation Plan for Study Area 6 (WESTON, April 1995)	Area B Sampling Plan for Study Area 6 Sampling Results for Study Areas 6, 7, and 21	Attachment 5
6	Monthly Status Report – Study Areas 6, 7, and 21 and Excavation Plan for Study Area 10 (WESTON, July 1995)	Area B Sampling Plan for Study Area 10 Sampling Results for Study Area 10	Attachment 6
7	Closure Report, Soil Remediation, Industrial Sewer Lines (Environmental Chemical Corporation, July 25,1996)	Area B Closure Report for Industrial Sewer System Decontamination and Removal	Attachment 7
8	Closure Report, Excavate Lead Contaminated Soil, Area 16 and 19 (Environmental Chemical Corporation, June 12, 1998)	Area B Closure Report for Areas I 6 and 19 (lead contaminated soil)	Attachment 8

Table 1-1 (Cont.) Documents Submitted With This Report

	Document Title	Contents/Description	Location
	AREA B (Conti	nued)	
9	Final Report, Stabilization of Incinerator Treated Soil and Fly Ash and Excavated Soil from Study Areas 14, 16, and 19 (Environmental Chemical Corporation, January, 1999)	Area B • ECC Stabilization information • Closure Report for Cell 8	Attachment 9
10	Final Report, Area 22 Landfill Cap (Environmental Chemical Corporation, February, 1999)	Area B Closure Report for Area 22 Landfill	Attachment 10
11	Area B Closeout Report. Alabama Army Ammunition Plant. (AlAAP). Childersburg, Alabama (WESTON, June 2000)	Area B Sampling Results for Study Areas 2, 6, 7, 10, 16, 17, 19, and 21 Closeout Report for Area B	Attachment 11

2. USACE ACCEPTANCE

2.1 INSPECTION OF WORK FOR COMPLIANCE WITH APPROVED WORK PLANS

EPA Region IV and ADEM reviewed and approved appropriate project plans. Field activities were audited and approved by USACE on-site representatives. Ten percent of the field samples were sent to the USACE Missouri River District (MRD) laboratory for quality assurance analysis.

The WESTON® Project QA Officer periodically inspected and audited compliance of the site activities with project plans. Both scheduled and unannounced audits were conducted.

The WESTON® on-site Contractor Quality Control (CQC) System Manager was responsible for implementation of the project plans as they applied to the field sampling, testing, monitoring, and analysis processes performed throughout the work. Daily reports were furnished to the USACE and regulatory agencies; progress reports were issued approximately quarterly to the USACE and regulatory agencies.

The WESTON® TIS-20 Operations and Production Supervisor managed all activities related to operations and control of the TIS-20. Weekly reports containing all operating data from the TIS-20 and analytical results were submitted to the USACE and regulatory agencies.

2.2 DOCUMENTATION OF WORK IN ACCORDANCE WITH CONTRACT DOCUMENTS

As required by USACE, WESTON® prepared and provided CQC Reports on a daily basis whenever construction and/or remediation activities were being performed. The report contained, at a minimum, the following:

- Location of work.
- Weather information.
- Work performed, personnel, quantities, and equipment used.
- Specific inspections performed and results.
- Problems identified, corrective actions taken.
- Verbal or written instructions from the Contracting Officer's Representative.
- Types of tests performed, samples collected, personnel involved, and results of tests.
- General remarks and calibration procedures and recording.
- Health and safety information.

2.3 FINAL INSPECTION AND SUBSTANTIAL COMPLETION CERTIFICATE

On 21 January 1997, the USACE representative conducted a final site closure inspection at AlAAP. The inspection indicated that the site remediation and closure activities were completed in accordance with the contract requirements and project plans. On this date, WESTON_® was released from further contractual activity at AlAAP, pending submission of the Area B Closeout Report and Final Project Closeout Summary Report. A Certificate of Substantial Completion was issued on 17 July 2000. A copy of the certificate is included in Appendix A.

Appendix A Certificate of Substantial Completion



DEPARTMENT OF THE ARMY

SAVANNAH DISTRICT, CORPS OF ENGINEERS NC AIR FORCE AND SPECIAL OPERATIONS AREA OFFICE P.O. BOX 70069, FORT BRAGG, NC 28307-0069

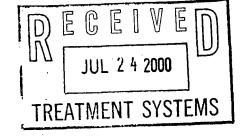
REPLY TO ATTENTION OF:

July 17, 2000

Resident Engineer

SUBJECT: Contract DACA41-90-C-0066, Transportable Incineration System for Explosives Contaminated Soils, Alabama Army Ammunition Plant, Childersburg, Alabama

Weston Services, Inc. ATTN: Al Zupko One Weston Way West Chester, Pennsylvania 19380-1499



Gentlemen:

A final inspection was held on subject project with representatives of your office, the Corps of Engineers and the user on March 21, 1997. It was mutually agreed that the contract was complete and the contract was accepted on this same date. The delays in final close out were primarily coordination issues with the EPA and negotiations of a final equitable adjustment concerning demobilization. All outstanding issues have now been resolved.

I would like to commend Weston Services, Inc. for their outstanding work on this project; especially noteworthy were Mr. Al Zupko and his staff efforts during the project. This was a well-managed project that resolved complex problems in and efficient and professional manner from day one at Childersburg, AL. This project is considered to have been highly success by all parties concerned.

The final close out is in progress. A pay estimate for an equitable adjustment will be made by August 15, 2000. The goal is to process the final pay estimate no later than September 1, 2000. If further information is required, please contact this office at 256-820-9053/9054.

Sincerely,

Kennein F. Gray, P.E. \\
Authorized Representative of the Contracting Officer

	•••••					***************************************
FOR OFFICIAL USE ONLY (WHEN COMPLETED)						
PERFORMANCE EVALUATION 1. Contract Number (CONSTRUCTION) DACA41-90-C-0066						
		•	•		2. CEC/DUN 6060834	
IMPORTANT: Be sur	e to complete Part III	- Evaluation of F	crformance	Elements on	reverse.	
		PART : - GENERAL	CONTRACT DA	TA		
3. TYPE OF EVALUAT	ION [] INTERIM (Li	st %) [X]	FINAL (] AMENDED	4. TERMINA	TED FOR DEFAULT []
5. Contractor (Nam Weston Services, One Weston Way	e, address and ZIP cod inc.	e)		EMENT METHO		
West Chester, PA		19380-1499	68. TYPE 0 [X] FRP	F CONTRACT	IM [] CT	HER
7. Description and			!		•••••	OFFICIAL FILE COPY:
7	ransportable incinerat labama AAP, Childersbu	ion System for Exp rg, Al.	olosives Con	staminated S	oils	CONTRACTING DIVISION PROCUREMENT BRANCH CONTRACT SECTION CESAN-CT-PC (334)441-5581
					** thru PE	# 040
8. Type and Percen	t of Subcontracting					•
9. Fiscal Data	A. Amount of Basic Contract	B. Total Amour Hodification		C. Liquidat Assessed		D. Net Amount Paid Contractor
•••	\$ 21,975,313.88	\$ 36,305	,021.25	\$	0.00	
10. Significant Dates	A. Date of Award	B. Original Cont Completion Da		Revised Co Completion		D. Date Work Accepted
	27 JUN 90	1 5 JAN 95	<u> </u>	- 21 MAR 9	7	00 00
PART II - PERFORMANCE EVALUATION OF CONTRACT (Check Appropriate Box)						
11. Overall Evalua	•					
[] Outstandi	ng [X] Above Aver	age [] Satis	efactory	[] Margi	nal []	Unsatisfactory
12. Evaluated By						
A. Organization U. S. Army Corps of Engineers, GESAM-CD-NH Comm (205) 820-9053 Autycon - 865-3714						
C. Name and Tit C. Douglas Smit	le h, Chief, Contract Adm	in D. Si	spature)	Son C	7 7	E. Date 10 Mar 97
13. Evaluation Reviewed By						
A. Organization U. S. Army Engineer District, CESAM 8. Phone Numbers Comm (205) 820-9053 Autovon - 865-3714						
C. Name and Title Kenneth F. Gray, P.E., Resident Engineer D. Sine			no re	Λ.		E. Date 10 Mar 97
14. Agency Use (Di	stribution, etc.)	······			••••••	,
FOR OFFICIAL USE ON	LY (WHEN COMPLETED)	DD FORM 2626		••••		

FOR OFFICIAL USE ONLY

(WHEN COMPLETED) N/A = Not Applicable 0 = Outstanding A = Above Average S = Satisfactory M = Marginal U = Unsatisfactory PART 111 - EVALUATION OF PERFORMANCE ELEMENTS 15. QUALITY CONTROL IN/A O A SIM U 16. EFFECTIVENESS OF MANAGEMENT a. Quality of Workmanship a. Cooperation and responsiveness: | |x| b. Adequacy of the CQC plan IXI b. Management of resources/personnel c. Coordination and control of subcontractor(s)! c. Implementation of the CGC plan d. Quality of QC documentation d. Adequacy of site clean-up e. Effectiveness of jobsite supervision e. Storage of materials f. Compliance with laws and regulations f. Adequacy of materials g. Adequacy of submittals g. Professional conduct h. Adequacy of QC testing h. Review/resolution of subcontractor's issues i. Adequacy of as-builts | x |] i. Implementation of sub-contractoring plan j. Use of specified materials 18. COMPLIANCE WITH LABOR STANDARDS k. Identification/correction of deficient work | X | a. Correction of noted deficiencies in a timely manner b. Payrolls properly completed and submitted 17. TIMELY PERFORMANCE c. Compliance with labor laws and regulations with specific attention to Davis-Bacon a. Adequacy of initial progress schedule Act and EEO requirements b. Adherence to approved schedule | | |]x] 19. COMPLIANCE WITH SAFETY STANDARDS c. Resolution of delays a. Adequacy of safety plan d. Submission of required documentation b. Implementation of safety plan e. Completion of punchlist items | | X

c. Correction of noted deficiencies

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f. Submission of updated and revised

progress schedules g. Warranty Response

_] **x** |] [] [DD FORM 2626

| |x| |

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20. REMARKS: Explanation of unsatisfactory evaluation is required. Other Comments are optional. Provide facts concerning specific events or actions to justify the evaluation. These data must be in sufficient detail to assist contracting officers in determining the contractor's responsibility. (Continue on separate sheet, if needed.)

Weston has established an aggressive safety program with the goal of 0 accidents. Weston utilizes a proactive approach involving all personnel through incentives and team building. There have been no lost time accidents on this project. Weston was nominated and won Mobile District's Safety Contractor of the Year Award for 1995, South Atlantic Division Contractor of the Year Award 1995, and South Atlantic Nobile Contractor of the Year 1996. The final phase of Childersburg was completed without a lost time accident.

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DD FORM 2626

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